

Federal Wireless Users' Forum Workshop
May 14, 2002

Background of the FWUF and Workshop Plan

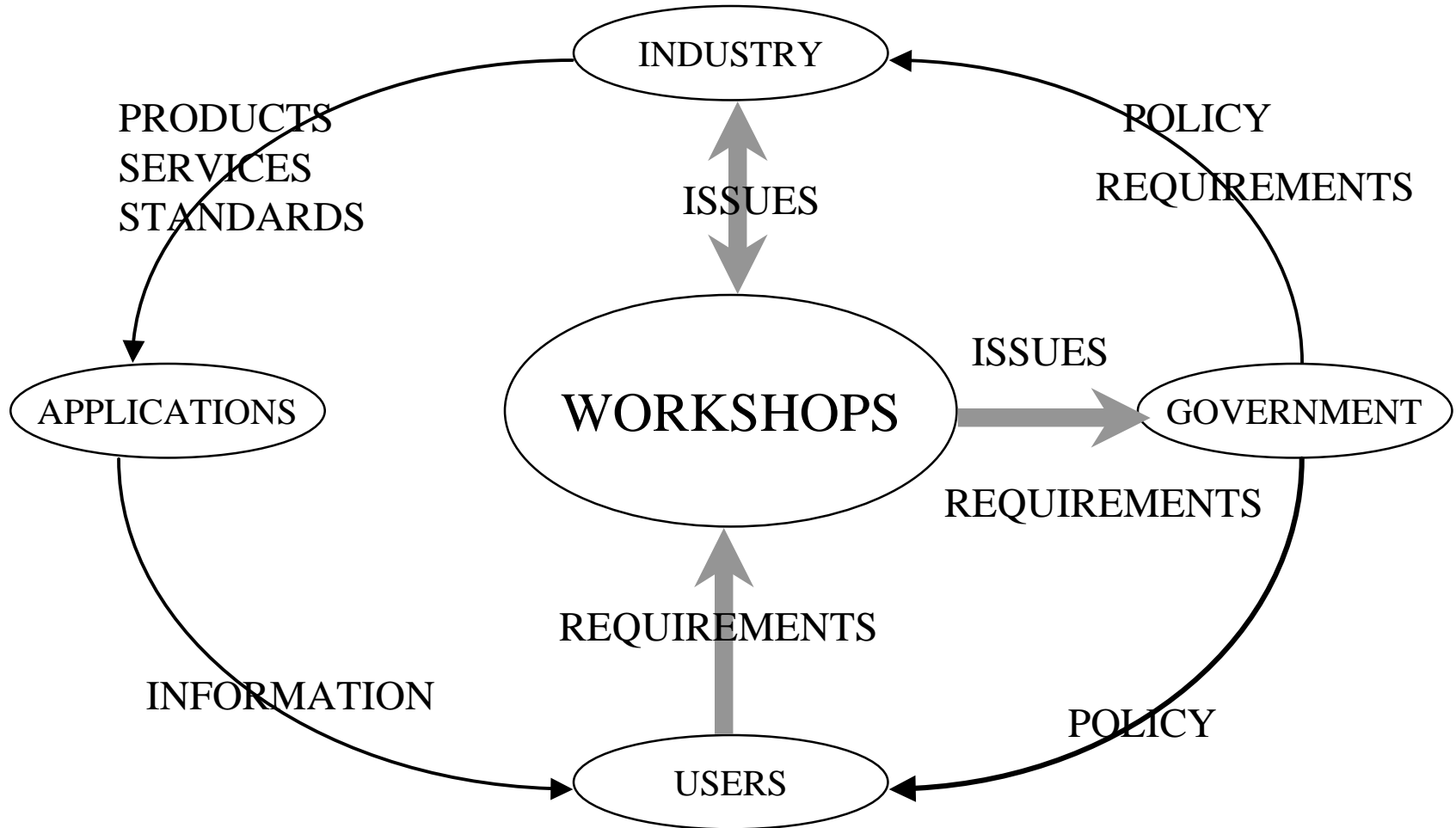
Mary K. Ruhl
National Security Agency
mkruhl@alpha.ncsc.mil

Federal Wireless Users' Forum

Objectives:

- Educate users about wireless communications
- Identify wireless telecommunications needs of government users;
- Facilitate information exchange
- Support the interoperability of emerging wireless services

How Workshops Work



Motivations

- Federal Government mandated to migrate from use of dedicated government frequencies to commercial leased systems
 - Moving to commercial, off-the-shelf equipment
 - Wireless services must accommodate the diverse national and international missions of the government
 - Concern over trends
 - fractured market / technology wars
 - industry focus on near term problems
- ⇒ Need to provide clear definition of user requirements to support industry planning and standardization efforts

History of Federal Wireless Users' Forum

- NSTAC recommendations
- FWUF established in 1992 to provide user voice to wireless providers.
- FWPC established in 1993 to evaluate issues and provide recommendations on telecommunications policy.
- Identified broad, functional requirements for Federal wireless users
- Produced document, “Current and Future Functional Requirements for Federal Wireless Services in the United States” (August 1994)
- Basis for Federal Wireless Telecommunications Services contract

Federal Wireless Requirements

- FWPC document “Federal Functional Requirements for Commercial Wireless Services” (Revised May 1999 and December 2001)
- Broad array of needs for wireless products and services
- Much in common with the Business Community
- Scope covers:

Cellular	PCS	Mobile Satellite
SMR	WLAN	Paging
Wide Area Networks		WPBX
- Rapidly growing market
- Foresee most Government business conducted over wireless

Functional Requirements

- **D**igital
- **U**biquitous
- **I**nteroperable
- **T**ransparent
- **S**ecure

Federal Wireless Requirements

Priority Access

- Nationwide Priority Access during Emergencies
- Uniform
- Standard terminal
- No Preemption
- Compatible with GETS/wired networks

Federal Wireless Requirements

Security

- Security is a “Must Have” requirement
- Three Tiers of Security
 - Commercial Products and Services
 - Security Enhanced Terminals (overlay)
 - Security Enhanced Infrastructure

Federal Wireless Requirements

Spectrum Issues

- New models for shared usage of spectrum
 - Use commercial services
 - Government as secondary user
 - Leased commercial service on Government frequencies
 - Government owned service and frequency
- Spectrum-flexible solutions for Military

September '01 FWUF Workshop

- Co-located with CTIA Wireless I.T. and Internet 2001
- Updates on:
 - FWTS mods, wireless regulatory actions, WPAS
- Wireless data and mobile Internet
 - CTIA, Aether, Nextel
 - USTRANSCOM, CapWIN, Illinois State Police
 - security risks
 - ENUM
- GSA wireless coverage actions
- Updates on support to 9/11 response
- Discussion of wireless for disaster response, national security and improved public safety

Sept '01 Workshop

Findings and Issues

- **9/11 highlights the critical need for wireless communications to be available and secure**
 - for national security and emergency response
- **Wireless data and mobile Internet**
 - many agencies are using PDAs, WLANs, CDPD, paging, and others to support diverse applications
 - requirements for stronger security, management features, and improved interoperability
 - applications for streaming video, video conferencing, imaging, and SMS
 - CTIA Conference – tremendous opportunity for seeing latest wireless technologies and future directions

September '01 Workshop

Findings and Issues

- **Wireless security**
 - critical requirement
 - lack of security in wireless data services and technologies
 - requirements for strong encryption, access control, authentication, data integrity, security management, wireless PKI
 - many agencies developing security policies for PEDs
 - more education on security, vulnerabilities, risks analysis, and risk management

September '01 Workshop

Findings and Issues

- **Wireless coverage in rural areas**
 - GSA reported progress made on identifying alternatives to speed deployment to critical rural areas
 - contact national or regional GSA representatives
- **Wireless Priority Service**
 - users express support for WPS
 - ongoing NCS efforts for GSM and CDMA solutions
- **Spectrum Management**
 - need for spectrum-flexible wireless solutions for domestic and international missions

Workshop Objectives

- Learn about commercial wireless services, applications and requirements for emergency support, Homeland defense, and military support
- Dialogue and seek input on:
 - wireless technologies and services
 - products and service features for Federal users
- Partner with other users and industry
- Information sharing

Workshop Plan

Tuesday

- Panel Session: September 11 Wireless Lessons Learned
- Emerging Commercial Wireless Services and Technologies
- Wireless Demonstrations and Displays

Wednesday

- Wireless Interoperability Issues and Solutions
- Wireless Security

Thursday

- Wireless Security
- Update on Government Initiatives
- Dialogue Session on Wireless User Requirements and Issues
- Final Plenary

FWUF Leadership

- After May workshop, FWUF Co-Chairs:
 - Jeng Mao, NTIA
 - Anna Entrichel, NSA
 - Tim Havighurst, NSA
- Will continue participation in Steering Committee and workshops

Future FWUF Events and Contacts

- Next workshop planned for October 16-18, 2002, in Las Vegas, Nevada
- Co-located with CTIA Wireless I.T. and Internet 2002
- FWUF Web page *<http://www.nist.gov/fwuf>*
- Contacts

Technical

Mary Ruhl

NSA

ph: (301)688-0270

Email: mkruhl@alpha.ncsc.mil

Administrative

Donna Blanger

Booz Allen &

Hamilton

ph: (703)377-0699

Email: blanger_donna@bah.com